

## *DISPLAY AND SCANNING ASSEMBLY FOR TRANSPARENCIES*

### Abstract

5           A display and scanning assembly is disclosed wherein light reflected from or transmitted through an image being scanned is transmitted to an optical sensor through an optical shutter assembly via a light guide assembly. The optical shutter assembly is made substantially opaque except for one or more selected optical shutter elements that are made substantially transparent or opened. Light is then reflected from or transmitted through the  
10   medium containing the image to be scanned through substantially transparent shutter element or elements and transmitted to the optical sensor via a light guide assembly. The image may then be scanned by advancing selection of shutter element or elements that are opened across the medium. The optical scanning assembly may further be capable of functioning as a display assembly wherein color components for each display element or pixel of the display  
15   assembly are premixed so that the display elements provide a true color instead of separate red, green and blue components of that color.